

ABSTRACT OF THE DISCLOSURE

A method for updating code includes receiving an update command for a first program resident in a first code space including at least one segment, transferring program control to a second program executing in second code space including one or more segment, selecting one of the at least one segment, mapping the selected segment to data space and writing the selected segment. A method for detecting corrupt software code includes defining a correlation rule for a program that includes at least one segment that includes multiple markers. The correlation rule defines a relationship between two or more of the markers. The method also includes writing the program to a memory device, reading two or more of the markers from the memory device, determining whether a segment is corrupt by applying the correlation rule to the two or more markers and indicating whether the segment is corrupt based upon the determining.